
ZXAppeal

Oct '85.

Newsletter of the

\$ 1.50

VANCOUVER SINCLAIR USERS GROUP

* Next Meeting *
* * * * *

* Killarney Community Centre *
* 6260 Killarney st. Vanc. *
* * * * *

* Oct 11 7 PM *
* * * * *

In this issue.

We Pre some Amble.
We look at the ZX I/O map.
We get even with Steven.
We plot some 3D.
And we load some M/C.

ZXAppeal is a monthly newsletter put out by the Vancouver Sinclair Users Group. For more information on the club and ZXAppeal see the backcover. In order to 'beat the deadline' material for ZXAppeal may be send directly to the editor 2308 Marine Drive West Vancouver, B.C. V7V 1K8. Marcio Vieira 'the Pres.' can be reached at 984-8893



DEAR EDITOR

EDITORS PREAMBLE

He; did we have a fair or what. Yes sir, the Sinclair users of Vancouver where at the Pacific computer fair and we had a good booth. Lets first give credit where its due. The following people worked on our booth or where there to man it or both. Our thanks go to:

Rudi Ruge
Don Mumford
Ken Kenney
Bob Lussier
Ken Abramson
Al Wright
Marcio Vieira

And others who gave us their support by just visiting the booth. Thanks to Ken Kenney we where able to show of the micro drives and Al Wright showed the multitude that yes, a diskdrive is also possible.

It remains to be seen how many new members are going to sign up as a result of this showing of the flag but the free TSHorizons where going fast and even ZXAppeal sold several copies, so there was interest in Sinclair stuff. I wonder what we can show Vancouver next year.

A QL, with diskdrives?

A Spectrum+ with 128K?

Is anybody planning any purchases out there we should know about?

As to the September meeting, it was a good one, we had more than 30 people there and there was a lot to see and hear.

Before I forget Rod Humphreys would like it known that he is the new network coordinator. He is taking this position over from John Brohman.

Rod tells us that, contrary to what was written in ZXAppeal a while ago, T/S Connection out of Cincinnati is not an authorized service facility for Timex computers. The Timex Products Service Department in Little Rock

Arkansas continues to do warranty and repair work on T/S computers and peripherals. Rod got this information from Mark Fisher via the network.

Ken Abramson mentioned the Computer education for the 80's fair at Simon Fraser University which is held on the weekend of 27 & 28 September.

Ken also showed us that major ramwobble problems can be avoided by using a typewriter eraser to clean the fingers of the expansion port. The use of contact cleaner, for the same purpose, was discussed and it was mentioned that one should not use anything but silicon based cleaners, to avoid a major meltdown of the plastic casing.

Karl Brown also made it to the meeting and he brought Hero, the Heathkit robot. He told us that his robotics course at VCC is sold out.

Karl has been to the Personal Robot Expo in San Francisco and he reports that, although things are starting to happen in that field, prices will have to come down considerably before robotics becomes as widely an accepted hobby as computerics is.

The robot that every student gets to build during his course at VCC will cost him or her only \$135.- including the instruction. It is with this low price that Karl want to push along the personal robotics revolution, for him a chicken in every pot is not enough he thinks every pot ought to have a robot to serve it.

Cont Page 15

ZX81 I/O MAP

JOHN T. ISAACSON

- (1) THE SINCLAIR ZX81 I/O MAP IS CHOPPED UP VERY BADLY.
- (2) IT MAY BE DECODED WITH THE FOLLOWING LIMITS:
- (a) BIT 0 CAN'T BE USED
 - (b) BITS 6 & 7 MUST BE SET TO 0
 - (c) ON OUT INSTRUCTIONS, EVEN NUMBERS MUST BE USED.
 - (d) ON IN INSTRUCTIONS, ODD NUMBERS MUST BE USED.
- (3) THIS GIVES 2^5 OR 32 POSSIBLE FULLY DECODED I/O PORTS.
- (4) LISTED BELOW ARE ALL POSSIBLE COMBINATIONS.

OUT INSTRUCTION				IN INSTRUCTION			
00H	10H	20H	30H	01H	11H	21H	31H
02H	12H	22H	32H	03H	13H	23H	33H
04H	14H	24H	34H	05H	15H	25H	35H
06H	16H	26H	36H	07H	17H	27H	37H
08H	18H	28H	38H	09H	19H	29H	39H
0AH	1AH	2AH	3AH	0BH	1BH	2BH	3BH
0CH	1CH	2CH	3CH	0DH	1DH	2DH	3DH
0EH	1EH	2EH	3EH	0FH	1FH	2FH	3FH

- (5) WHEN USING PERIPHERAL COMMUNICATION CHIPS SUCH AS INTEL'S 8251A SERIAL COMMUNICATION CHIP, 8255 PARALLEL PORT CHIP AND ZILOB'S CTC CHIP ONE OR MORE ADDRESS LINES ARE USED BY THE DEVICE.

THIS MEANS THAT WITH A SINGLE IC (74LS138) IT IS POSSIBLE TO DECODE ANY 8 OF THE ADDRESS LINES THUS CONTROLLING UP TO 8 DEVICES.

ANY ONE WANTING FURTHER TECHNICAL DETAIL CAN CONTACT ME AT 585-7352, ASK FOR JOHN AFTER 6pm.

*****ARTIFICIAL INTELLIGENCE*****

EVEN STEVEN. A GAME.

```

5 SLOW
10 GOTO 600
200 CLS
210 DIM R(2,6)
225 LET L=1
235 LET Y=0
245 LET E=1
255 LET T=0
260 FOR I=1 TO 6
270 LET R(2,I)=4
280 LET R(1,I)=4
290 NEXT I
300 GOSUB 1000
310 LET A=1
320 LET B=0
330 LET S=0
340 LET X=0
350 PRINT AT 21,6;" ";AT 21,6;
T;AT 21,24;" ";AT 21,24;Y
360 PRINT AT 10,3;" ";AT 10,27
;" ";AT 17,3;" ";AT 17,27;" "
90 LET P=INT (((13*RND)+9)/2)*
2+1
95 PRINT AT 4,14;" ";AT 4,14;
P
100 PRINT AT 10,14;" ";AT 10,1
4;P
110 IF 6<=10*RND THEN GOTO 225
115 PRINT AT 17,11;" MY TURN "
120 LET E1=E
130 LET L1=L
140 LET E=1+(A/2-INT (A/2))*2
150 LET L=1+INT ((P/6-INT (P/6)
)*6+.5)
160 IF R(E,L)>=P THEN GOTO 320
170 LET M=R(E,L)
180 IF M<=0 THEN GOTO 370
190 LET P=P-M
195 LET X=X+M
200 PRINT AT 10,3;" ";AT 10,3;
M
205 PRINT AT 10,14;" ";AT 10,1
4;P;AT 17,3;" ";AT 17,3;X
210 PRINT AT 17,11;"YOUR MOVE"
220 LET B=B+M
225 PRINT AT 17,11;"YOUR TURN"
230 INPUT M
235 PRINT AT 10,27;" ";AT 10,2
7;M
240 LET M=INT (M)
245 LET S=S+M
247 PRINT AT 17,27;" ";AT 17,2
7;S
250 IF M<1 THEN GOTO 450
260 IF M>4 THEN GOTO 460
270 IF M>P THEN GOTO 460
280 IF M=P THEN GOTO 360
290 LET P=P-M
295 PRINT AT 10,14;" ";AT 10,1
4;P
300 LET A=A+M
310 GOTO 115
320 PRINT AT 10,3;" ";AT 10,3;
P
330 PRINT AT 17,3;" ";AT 17,3;
P+X
340 LET R(E,L)=P
350 LET B=B+P
360 IF B/2=INT (B/2) THEN GOTO
420
370 PRINT AT 17,11;" YOU WIN "
375 LET Y=Y+1
380 IF R(E,L)=1 THEN GOTO 480
400 LET R(E,L)=R(E,L)-1
410 GOTO 70
420 PRINT AT 17,11;" I WIN "
425 LET T=T+1
430 GOTO 70
450 IF M=0 THEN GOTO 570
460 PRINT AT 17,11;" WRONG "
463 LET S=S-M
465 PRINT AT 17,27;" ";AT 17,2
7;S;AT 10,27;" ";AT 10,27;"XX"
466 FOR N=0 TO 10
467 NEXT N
468 PRINT AT 17,11;"TRY AGAIN"
470 GOTO 230
480 IF R(E1,L1)=1 THEN GOTO 70
490 LET R(E1,L1)=R(E1,L1)-1
500 GOTO 70
570 STOP

```

STARTING TOTAL

13

I TAKE BOARD TOTAL YOU TAKE

4 9

MY TOTAL YOUR TOTAL

4 YOUR TURN

I WON 0 GAMES YOU WON 0 GAMES

```

600 PRINT AT 0,5;"WELCOME TO EV
EN STEVEN"
610 PRINT
620 PRINT "THIS GAME HAS ARTIFI
CIAL INTEL- LIGENCE AS YOU PLAY,
IT GETS SMARTER UNTIL, AFTER
ABOUT 15 GAMES, IT WILL BE HA
RD TO BEAT"
625 PRINT
630 PRINT "
635 PRINT "THE GAME STARTS WITH
AN ODD NUMBER OF CHIPS AND
EITHER GOES FIRST ITSELF OR LETS
YOU GO"
640 PRINT
645 PRINT "THE OBJECT OF THE GA
ME IS TO ENDUP WITH AN EVEN AMOU
NT OF CHIPS YOU ARE ALLOWED TO T
AKE 1 TO 4 CHIPS PER TURN"
650 PRINT "YOU TAKE THE CHIPS B
Y ENTERING YOUR NUMBER AND NEUL
INE"
660 PRINT " TO START THE GAME P
RESS "G"
670 PRINT " TO START THE GAME I
N THE SMART OR PREPLAYED MODE P
RESS "S"
680 PRINT " TO STOP PLAYING PRE
SS "0"
690 IF INKEY$="" THEN GOTO 690
700 IF INKEY$="G" THEN GOTO 20
710 IF INKEY$="S" THEN GOTO 69
720 GOTO 600
1000 CLS
1001 PRINT AT 1,8;"STARTING TOTA
L";AT 3,13;" ";AT 4,13;" "
;AT 5,13;" "
1010 PRINT AT 7,1;"I TAKE BOARD
D TOTAL YOU TAKE";AT 9,2;"
";AT 10,
2;"
1020 PRINT AT 11,2;"
"
1030 PRINT AT 14,0;"MY TOTAL
YOUR TOTAL"
1040 PRINT AT 15,10;"
";AT 16,2;" "
1050 PRINT AT 17,2;" "
;AT 18,2;" "
1060 PRINT AT 19,10;"
"
1070 PRINT AT 21,0;"I WON";AT 21
,9;"GAMES YOU WON";TAB 27;"GAME
S"
1080 RETURN
1090 SAVE "EVEN"
1100 GOTO 5
    
```

As explained in lines 600-680 Even Steven is a game that gets smarter as you play it. Make sure you use GOTO 5 if you do not want to loose the accumulated smarts when restarting the game. When you clear the variables the game plays like a moron until it gets wise to you. The game is based on the fact that if one divides an odd numbered pile of chips between 2 players one will end up with an odd numbered pile and one, the winner in this case, with an even numbered pile.

Paul.B

#####

Colour Corner

Written By: Wayne McCarthy
& Guido Viera

#####

Welcome...

Sorry to Paul and the public for not contributing to the news letter last month, but what is old is history. In this months article I (Wayne) have included a list of some of the Spectrum Adventure games. Also included is a program that creates large characters.

Program !

```

1 REM program contributed by
  Wayne McCarthy
2 REM from ZXComputing April/
  May 1985
10 LET w=4: LET t=4: LET a=7*w
  LET d=168: LET a$="Demo": GO 3
UB 100: STOP: REM w can be chan
ged from 32/48 TO 8 as can t and
d can be changed to be no highe
r than 168:
15 REM try d=0!
100 FOR n=1 TO LEN a$: FOR f=0
TO 7: LET p=PEEK (15360+CODE a$(
n)*8+f)
110 FOR i=0 TO 7: IF p=2*INT (p
/2) THEN FOR l=1 TO t: PLOT a-i*
w,d-f*t-l: DRAW 1-w,0: NEXT l
120 LET p=INT (p/2): NEXT i: NE
XT f: LET a=a+w*8
130 IF a>255 AND d-t*8<t*8-1 TH
EN LET d=d-t*8: LET a=a*8-1
140 IF a>255 AND d-t*8<t*8 THEN
PRINT AT 21,31: FOR f=1 TO t
PRINT : NEXT f: LET a=a*8-1
150 NEXT n: RETURN
160 REM
170 REM this program does not
copy onto the printer very
easily
180 REM

```

This program creates larger or smaller characters.

Special: Adventure List!

Key to list:-

T - Text
A - Animated
F - Fantasy
S - Sci Fi
Z - ZX81 version also

G - Graphic
I - Independent Characters
H - Historical
M - Modern

Name	Company	Code
1942 Mission	CCS	TM
Abyss	CCS	--
Ace in the Hole	Add-On	--
Adventure Island Contrast		--
Adventure Quest Level 9		--
Alien	APS	TS
Arcane Quest	Add-on	--
Atlas Assignment Virgin		TGM
Aztec	Hill MacGibbon	TGH
Barrowquest	CCS	TF
Black Crystal	Carnell	Z
Black Dwarf's Lair	New Soft	--
Black Planet	Phipps	--
Buffer Advent.	Buffer Micro	TM
Byte	CCS	--
Castle	Bug-Byte	--
Castle Blackstar	SCR	TF
Circus	Channel 8	--
City of Ehdollah	Goldstar	TF
Classic Advent.	Melbourne House	--
Golditz	Phipps	--
Colossal Advt.	Level 9	--
Colossal Caves	CP Software	--
Crusoe	Automata	TGHR
Cry Wolf	Add-on	--
Cuddles	8th Day Software	--
Demon Lord	MCE	--
Denis through the Drinking Glass		--
Detective	Application Soft	--
Devils of the Deep	R.Shepard	--
Diamond Quest	CCS	--
Diamond Trail	Gilsoft	--
Doomsdark's Revenge	Beyond	TFG
Dragonsbane	Quicksilver	GAF
Dungeon Advent.	Level 9	--
Dungeon Master	Crystal Computing	--
Dungeons of Doom	Woolsoft	--
" "	Temptation	--
Eric the Viking Mosaic		TGF
Espionage Island	Arctic	TMZ
Eureka!	Domark	TGHR
Eye of Bain	Arctic	--
Faerie	8th Day Software	TF
Falls of Shalor	Emprise	TF
Fantasia Diamond	Hewson	TGCF
Final Mission	Incentive	--
Flight from the Dark	Five Ways Software	--
Four Minutes to Midnight	8th Day Software	--

Frog Face	Positive Image	-
Genesis II	Mikro-Gen	--
Golden Apple	Artic	--
Gorgon	Phipps	--
Hampstead	Melbourne House	--
Here Comes the Sun	Alligata	--
Hobbit	Melbourne House	TGCF
Hole	Add-on	--
Horror Atoll	Add-on	--
Hulk Advent.	International	TGF
Ice Station 0	8th Day Software	--
Inca Curse	Artic	Z
Inferno	R. Sheperd	TGC
Island	Crystal	--
Island	Virgin	TGAF
Islet of Langerhan	Amazing Games	--
Jerico Road	Shards	--
Jokers Wild	Phoenix	--
Jungle Advent.	CCS	--
Kentilla	Micromega	TGF
Key to Time	Lumpsoft	TS
King Arthur's Quest	Hill	--
	MacGibbon	Z
Knight's Quest	Phipps	Z
Legend	Century	--
	Communications	--
Leopard Lord	Add-on	T

Now explore the epic world of
THE LORDS OF MIDNIGHT

by
Mike Singleton



Lords of Time	Level 9	TH
Lost over Bermuda	Add-on	--
Mountains of Kat	Incentive	TF
Mysterious Fairground	Buffer	TM
Odyssey of Hope	Martech	TGF
Oracle's Cave	Doric	TGAF
Orb	Computer Rentals	--
Orc Slayer	Gamma Software	--
Paradox	Runesoft	--
Perseus and Andromeda	Channel 8	--
Peter Pan	H & S	--
Pimania	Automata	TGAF
Prince	CCS	TF
Quann Tulla	8th Day Software	--
Quest	Hewson	--
Quest for Eternity	APS	TS
Quest For the Holy Grail	Dream	--
Quest for the Holy Joystick	Delta 4 Software	--
Quetzalcoat1	Virgin	TGH
Return to Eden	Level 9	TGS
Roundsby Incident	Add-on	--
Runes of Zandos	Dorcas	TGAF
Sandman Cometh	Star Dreams	--
Sherlock	Melbourne House	TM
Ship of Doom	Artic	TSZ
Snowball	Level 9	TS
Solaris	Softel	--
Spider-Man Advent.	Int.	TGF
Spoof	Runesoft	--
Staff of Zaranol	CCS	TF
Superspy	R. Sheperd	--
(this program † is NOT the one that Bob Lussier reviewed before, the one he reviewed is actually Spy Hunter by Sega.)		
System 15000	Craig Communicat	--
Temple of Uram	Incentive	TF
Terror from the Deep	Add-on	--
Time Quest	Mikro-Gen	--
Tir Na Nog	Gargoyle	GAF
Titanic	R&R	--
Tower of Despair	Games Workshop	--
Twin Kingdom	Valley Bug-Byte	TG
Urban Upstart	R. Sheperd & 2068	--
Valhalla	Legend	TGAF
Valkyrie 17	Ram Jam Corp.	TM
Velnor's Lair	Quicksilva	--
Volcanic Dungeon	MasterVision	Z
War of the Worlds	CRL	--
Waxworks	Digital Fantasia	--
Witches Cauldron	Mikro-Gen	TGF
Ziggurat of Dread	Add-on	--
Ziggurat	Software Super Savers	--

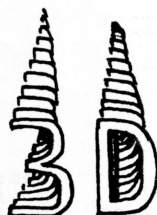
this list was originally published in ZX Computing April /May 1985.

Avalon	Hewson	TGAF
The Journey	Temptation	--

```

1 REM *****
  *---3D PLOTTING---*
  *****
  * contributed by: *
  * R. Lussier      *
  *****
2 BORDER 0: PAPER 0: CLS
3 INPUT "resolution":s
5 DIM p(250,2)
10 FOR f=1 TO 250: LET p(f,2)=
255: IF f>140 THEN LET p(f,2)=f
12 NEXT f: BEEP .5,30
15 FOR f=-50 TO 50 STEP s
20 LET a=f
25 LET b=50-ABS f
30 FOR g=-70 TO 70
35 LET c=70-ABS g
40 GO SUB 1000
50 NEXT g
55 IF f=50 THEN STOP
60 FOR a=f+1 TO f+s-1
65 LET b=50-ABS a
70 FOR g=-70 TO 70 STEP s
75 LET c=70-ABS g
80 GO SUB 1000
90 NEXT g
100 NEXT a
110 NEXT f
1000 LET t=b*c/800
1005 LET r=a+g+121
1010 LET t=-EXP t/80
1020 LET t=INT(80+a-t*80)
1022 IF f=-50 THEN LET p(r,2)=t
1023 IF t<=p(r,1) THEN GO TO 105
0
1025 INK 6
1026 LET p(r,1)=t
1027 IF t<0 THEN LET t=0
1028 IF t>175 THEN LET t=175
1035 PLOT r,t
1040 RETURN
1050 IF t>=p(r,2) THEN RETURN
1060 LET p(r,2)=t
1070 INK 5
1080 GO TO 1027

```



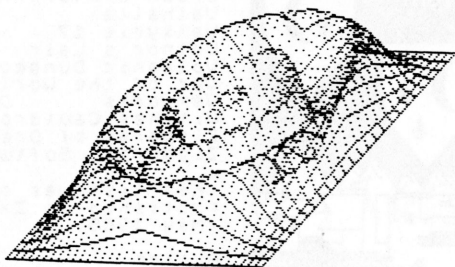
This program for the T/S 2068 & the Spectrum produces 3 dimensional view of the function held at Line 1010.

When RUN the program will ask "resolution" which determines the spacing between the points plotted. Value 4 gives a detail plot, 10 gives a reasonable plot and 20 produces a fast but crude display. Resolution 4 takes from 15 to 25 minutes depending the function of Line 1010.

```

RESO:  LINE 1010
4      LET t=EXP t/80
10     LET t=(SIN(t*3)+COS)/4
5      LET t=LN ABS COS t/10
10     LET t=SGN COS(4+t)/10
5      LET t=-SIN*(1-COS t)/2

```



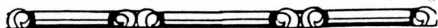
NEW Director for Sinclair

By R. Lussier

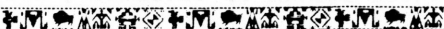
Sinclair Research's new boss will be Bill Jeffery, who was previously managing director for the company's TV & Communications division.

His promotion to the chief executive was a direct result of his success in bringing the Flat Screen TV to the market.

The price of the QL computer is now being cut. This is due to the 'never knowingly undersold policy'. The US price is to be approximately US \$290.00, now things are starting to look a bit better for the User.



Wanted. Timex 1000 with manual.
Working condition, under \$40.-
Ph 732-9691, leave message on A.S.



SPECTRUM COMPATABILITY

By R. Lussier

The Spectrum Kempston Joy-stick Interface is very compatible with the TS 2068.

You do not need the Z-Link or Twister board. Just attach to the edge-connector of the 2068 and it WORKS!!! So with the purchase of the interface you can use it on all the Spectrum programs.

There is one available for £12.95 + P+H called the "GAMES PLAYER". This unit besides being an interface also has a knob on the top which you can adjust the speed of the program or freeze the screen. It is also Micro-drive compatible. The Kempston interfaces range from about the £7.95 range onwards. If you are interested in the one mentioned above, the contact address is:

SPEEDYSOFT,
87 Howard's Lane,
London SW15 6NU,
England

The 128K SPECTRUM

by R. Lussier

The new 128K Spectrum now likely to be shown for the first time in the UK at this year's PERSONAL COMPUTER WORLD SHOW.

The new Spectrum is thought to be priced between £175-£200. The unit is based on technology developed for the TS 2068.

The Spectrum 128K will be software compatible with the ZX Spectrum and Spectrum+ models & offer a number of additional features.

It has 128K Ram, that is bankswitched, with a facility for further expansion, 3 channel Sound, 3 additional display type Modes, high resolution display & 64 Column mode, built-in Joy-stick ports, and able to use the 80-column Printer. Shades of the two year old TS 2068.

There was no mention of the type of case, keyboard, etc. I hope not the same type as the Spectrum +. Hopefully we will be hearing more about this machine.

The Future of the QL contributed
by: - R. Lussier

The QL won the Microcomputer of the year award recently and Sinclair also won an award for the Spectrum version of LOGO

The manufacturer CUMANA is making a Disc Drive for the QL which will support the new OS-9 system capable of turning the QL into the equivalent of a high-speed mini computer.

This add-on is to be available in September/85 with the compatible disc drive & Interface. This system is for both the QL & the BBC computers. This whole system is to be very UNIX like.

The software availability for the QL is now starting to build-up quite rapidly as is the hardware support. It finally looks like the QL is getting the recognition it deserves.

More Information by R. Lussier

The EMC, 15 Kilburn Court, Newport, RI 02840 now has the KEMPSTON Joystick Interface that plugs directly on the T/S 2068 with no adaptors needed. The new price is US \$17.50 and for the Games Club Members the price is US \$15.00.

To get to be a Games Club member costs US \$9.95 per year. With the membership you get 15% of merchandise and on Specials.

Mr. Bob Dyl of EMC would also appreciate hearing from the members who would like to sell their T/S 2068 manuals. If at all interested please contact at the above address. He also now has available the New EMC catalog. Get one they are a great catalog with lots of goodies for the TS 2068, TD 2068, and the Spectrum. Enjoy.

OBSERVATIONS ON A EUROPEAN VISIT

As I mentioned in the September issue of ZXAppeal I recently had an opportunity to check out the computer scene in Europe first hand. Since I had not been back there since 1979 (before the homecomputer revolution hit in earnest) I was looking forward to the experience.

It so happens that my brother is a member in good standing (albeit without 1985 membership card which he misplaced somewhere among the program listings and other general flotsam one finds on a computerists desk) of the Commodore Users Group of the Netherlands. Because of that we where able to go to their national swapmeet in the Hague.

I must say that, knowing the language, I felt immediately at home. There was no difference, that I could see, between this meeting and the same type of thing here in North America.

I found the same straggly haired, bent backed, keyboard flat fingered types at this meeting as I would at any North American computerist get together.

Coming back to language, it has been said that we computerists have a language all of our own, well let me assure you, fellow English speakers of the world, you're troubles are nothing compared with the average Dutch or German computer novice. Just try and tell someone outside of the computer fraternity the difference between RAM and ROM.

Yes ah.. I know ROM is also Random Acces Memory but we ah.. did it this way because it sounds better. Now try and explain that to the average Frenchman and he would smile at you knowingly and keep his thoughts to himself. While "over there" I did see quite a few French and Dutch newspaper and magazine ads and I also glanced through a German MSX book.

Cont. page 13

"WORD" Processor for T/S 2068

This word processor has quite a few nice features such as:-

- (1) Regular printout on the TS/2040 Printer.
- (2) Inverse printout on the TS/2040 Printer.
- (3) It has UNDERLINING.
- (4) You set your own TABS.
- (5) Different characters such as π (PI), [], \, { }.

This program is very USER friendly and well documented.

If interested in this program you may get a copy for the price of \$8.50 Canadian from:-

R. Lussier,
P.O. Box 788,
New Westminster, B.C.
Canada V3L 4Z8

RATING: 8 1/2
Value for money: 8
Ease of use: 9 1/2
Use of Computer: 9
Graphics: none
Overall: 8 3/4

The profits from this venture go back into the User Group to continue the Groups efforts.

I thank Mr. Glenn A. Smith of Austell, GA 30001 for the opportunity of using his program to further our Groups efforts. Thanks Glenn!!!!

Programming Tip

What does the following line do?

```
10 IF A$="YES" THEN LET X=1: P  
PRINT "You pressed YES": STOP
```

At first glance, it would appear that whenever the computer came across this line, it would check to see if A\$ is "YES". If not, it would not make X=1 and then because it is a multi-line statement, it would print the message and then STOP. NOT SO! Due to the nature of the operating system, the statements following a conditional check will only be executed when the IF - THEN statement is true. No more "go to a subroutine" is needed when you want to do more than one thing when a condition is true. Just put them after the check in a multi-statement line format!

NEW !! 2068 BOOK

contributed by R. Lussier

The name of the book is the "T/S 2068 Basics and Beyond". I gave the American address in an earlier issue of the NEWSLETTER. This is the Canadian address to get a hold of the book. The new price is Canadian \$16.00 inc the postage.

Gage Distribution Co.,
164 Commander Blvd.,
Agincourt, Ontario
M1S 9Z9
Canada

This book is supposed to have a great section on the SOUND Command and how to use it. It states that when you have learned the chapters on SOUND you should be able to play your own music on the TS 2068. Well I hope so because I have sent for the book. I will do a User review on it after I have tried it out.

ZX81/TS1000 MAGAZINE - R. Lussier

The magazine "NEXT 81" is devoted entirely to the ZX81 and TS1000/1500. It has reviews, programs, posters, and lots more.

For more information send a large SAE and £1.00 to:-

MMP,
76 Huntsmoor Rd.,
Tapley, Basingstokes,
Hants RG26 6BX,
England

From page 10

(big in Europe by the way, this MSX business) and these and other semi English phrases kept cropping up constantly. To give you an idea of what is available to the European computer hobbyist I'll list some of the computer fare I spied in various stores of the cities I visited.

I saw the Sony Hit Bit, a MSX machine, in the chicklet key/16K configuration for 8950 Lux Francs in a store in Luxemburg. This particular machine is available every where in Europe as far as I could tell. The ZX81 is available for 399 Fr Francs in Paris and in the taxfree shopping center on Schiphol airport the QL is available for the "bargain" price of Hfl 1767.- when I left you could get Hfl 2.30 for a Canadian dollar. Also at Schiphol, taxfree, you can get a Spectrum+ for Hfl 498.- and the Atari 130XE for Hfl 598.- since these prices are taxfree I'll leave you to decide whether they are bargains or not.

I must say it is quite an experience to be able to walk into a store and play with a QL or for that matter an ordinary Spectrum it makes me wonder if we will ever have the same opportunity here on this continent.

Oh yes the Amiga versus 520ST battle is heating up in Europe as well believe me sparks will fly.

Paul R

MACHINE CODE LOADER-ZX81
CONTRIBUTED: R. LUSSTER

This program has 5 functions. You can enter one or two bytes of decimal (so full address eg. 16396, can be entered) or 1 byte of Hex. You can print what you've entered so far on to the screen (if the screen fills up then you press 'cont') and RUN your machine code program. In addition the address of last byte entered and its decimal contents are displayed at the top of the screen.

```
10 REM
20 LET A=16514
25 CLS
30 PRINT A-1,PEEK (A-1)
40 PRINT "1=1*DEC,2=2*DEC,3=1*
HEX"
45 PRINT "4=PRINT,6=RUN"
50 PRINT
60 INPUT B
70 GO TO B#200
400 PRINT B;"*DEC"
410 INPUT C
420 POKE A+1,INT (C/256)
430 POKE A,C-256*PEEK (A+1)
440 LET A=A+B
450 GO TO 25
600 PRINT "1*HEX"
610 INPUT A#
620 POKE A,16*(CODE (A#)-26)+C0
DE A#(2)-26
630 LET A=A+1
640 GO TO 25
800 CLS
810 FOR C=16514 TO A
820 PRINT C,PEEK C
830 NEXT C
840 INPUT A#
850 GO TO 25
1200 PRINT USA 16514
1201
1202 REM Insert 40 graphic
spaces after the
REM statement in
line 10 ----
```

TIMEX/SINCLAIR USER GROUPS

Contributed by: - R. Lussier

Timex Z80 Users Group,
1624 Loughborough,
Mercede, CA 95340

T/S 1000 Group,
P.O. Box 5703,
Stockton, CA 95204

ZX81/TS1000 Users,
P.O. Box 2411,
Vista, CA 92083

Mile High T/S Users,
914 S. Victor Way,
Aurora, CO 80012

Z-X Timex Group,
950 Cynthia Dr.,
Titusville, FL 32780

Sinclair End Users Group,
2170 Oakbrook Circle,
Palatine, IL 60067

The Greater Cleveland Area
Sinclair Users Group,
6514 Bradley Ave. (Down),
Parma, OH 44129

TUG,
1501-B Compton Ave.,
Nashville, TN 37212

Abilene T.S.U.G.,
609 EN 18th,
Abilene, TX 79601

Washington Area Users Group,
P.O. Box 6239,
Washington, DC 20015
ATTEN: Steve Wyatt

Okanagan QL Users Group,
C/O RR2, Site 79,
Box 10,
Summerland, B.C.
V0H 1Z0

If there are other groups
out there please write in and
your group will be listed. Lets
keep in touch. Till later----

T/S 1000 National Soft. Exchange
RR2, Box 162,
LaGrange, IN 46761

Capitol Area T/S User Group,
P.O. Box 725,
Bladensburg, Maryland 20710

Boston Area T/S User Group,
4 Ox Road,
Billerica, MA 01821

Joplin Sinclair Users Group,
P.O. Box 2221,
Joplin, MO 64803

T/S Group of Greater Kansas City
4701 N.W. Linden Rd.,
N. Kansas City, MO 64151

Timex UG of Las Vegas,
2405 Howard Drive,
Las Vegas, NV89104

LIST,
10 Idle Day Drive,
Centerport, NY 11721

SINCUS,
P.O. Box 36,
Johnson City, NY 13790

Timex Users Group,
Rt.3, Box 64E,
Robinsville, NC 28771

```

1 REM *****
  * FOR ZX81/TS1000 *
  *****
  * CONTRIBUTED BY *
  * R. LUSSIER *
  *****
2 REM ---- BIN/DEC ----
10 PRINT "INPUT D FOR DEC. TO
BIN."
20 PRINT "INPUT B FOR BIN. TO
DEC."
30 INPUT C$
40 CLS
50 IF C$="B" THEN GO TO 190
55 PRINT "CONVERSION FROM DEC.
TO BIN."
60 LET A$=""
70 LET B$=""
80 INPUT Y
90 LET X=Y
100 LET X=X/2
110 IF INT X<>X THEN LET A$=A$+
"1"
115 IF INT X=X THEN LET A$=A$+
"0"
120 LET X=INT X
130 IF X<>0 THEN GO TO 100
140 FOR A=1 TO LEN A$
150 LET B$=A$(A)+B$
160 NEXT A
170 PRINT Y;"=";B$
180 GO TO 260
190 PRINT "CONVERSION FROM BIN.
TO DEC."
200 INPUT A$
210 LET D=0
220 FOR A=1 TO LEN A$
230 IF A$(A)="1" THEN LET D=D+2
*(LEN A$-A)
240 NEXT A
250 PRINT A$;"=";D
260 PAUSE 4E4
270 CLS
280 RUN

```

INSTRUCTIONS for BIN/DEC

This program will convert decimal numbers into binary numbers & vice versa. You are told which letter to enter for the function you need. After your choice is made the screen will clear and the program continues with the function you wish.

What the function does is displayed at the top of the screen. Then the number you want is calculated and printed. The program then pauses. Pressing any key will re-run the program.

Wilf Rigger was also at the meeting, he tells us that he is back working with the ZX81 again. He, together with James Horne, is developing all kinds of exciting things for the old ZX. Together they have developed a board which will give you upper and lower case characters on the screen for use with Word Sinc 11.4. The board is available at D.Ross Educational Electronics. Dave tells me that the U/L case board and other goodies are put together in a "Multi-Pack" and you can reach him at 298-9245 for more information. The meeting closed at about 8.30 and if I may say so it looks as if an other strong Sinclair season is about to start. There is renewed interest in the ZX81 and (maybe I am influenced by my European trip, see else where) as far as other Sinclair machines and clones are concerned, they just keep on coming.

Paul (the Editor) Ruiterman.



Vancouver Sinclair Users Group,
P.O.Box 788,
New Westminster,
B.C. V3L 4Z8.



The Vancouver Sinclair Users Group has been in existence since 1982. We are a support group for the owners and users of the, Microace, ZX 80, ZX 81, T/S 1000, T/S 1500, Spectrum, Spectrum+ T/S 2068 and QL computers.

Our 1985 executive consists of,
President Marcio Vieira

V.P./Coordinator Erik Sakara

Treasurer ARBie Fru

Our Membership dues are only \$10.-/year and may be send to our Treasurer.

ARBie Fru
7220 Blundell Rd
Richmond. B.C.
V6Y 1J4.

Membership includes a subscription to ZXAppeal our monthly newsletter.

ZXAppeal accepts advertising, our =PREPAID= rates are,

\$ 40.- per page.

\$ 20.- per 1/2 page.

\$ 10.- per 1/4 page.

We charge one dollar extra for billing.

ZXAppeal has a print run of 150 copies per month and is distributed to our

members together with approx. 75 other Sinclair usergroups throughout North

America who receive a photocopy, via The Network.

Our Network coordinator is,

Rod Humphreys,
2006 Highview Place,
Port Moody B.C. V3H 1N5